

Amendment to the Claims:

Listing of claims:

1. (Currently amended). A chimeric isoprenoid synthase polypeptide, comprising at least a portion of a ~~first tobacco 5-epi-aristocholene isoprenoid synthase polypeptide (TEAS)~~, joined to at least a portion of a ~~second, different *Hyascyamus vetispiradiene* synthase isoprenoid-polypeptide (HVS)~~, wherein the chimeric isoprenoid synthase has an activity that is different from the activity of the ~~first TEAS and second isoprenoid HVS~~ polypeptide.

2. (Currently amended). The chimeric isoprenoid synthase polypeptide of claim 1, wherein said chimeric isoprenoid synthase polypeptide catalyses the production of an isoprenoid reaction product that is not produced in the absence of ~~said at least a portion of said, second different isoprenoid synthase portion of the HVS~~ polypeptide.

3. (Currently amended). The chimeric isoprenoid synthase polypeptide of claim 1, wherein said chimeric isoprenoid synthase polypeptide catalyses the production of an isoprenoid reaction product that is not produced in the absence of ~~said at least a portion of said, second different isoprenoid synthase~~ the portion of the HVS polypeptide.

4. (Previously amended). The chimeric isoprenoid synthase polypeptide of claim 1, wherein said chimeric isoprenoid synthase polypeptide catalyses the production of at least two different isoprenoid reaction products.

It is respectfully submitted that the rejection of claims 1-5 under 35 U.S.C. § 112, first paragraph as allegedly failing to be enabled by the disclosure is rendered moot by the amendments to the claims. The Examiner noted at page 3 of the Office Action that the specification provides an enabling disclosure of chimeric syntases produced from TEAS and HVS. Accordingly, the claims, as amended above, are enabled by the disclosure.

### **III. Rejection of Claims 1-5 Under 35 U.S.C. § 112, Second Paragraph**

It is respectfully submitted that the amendments to the claims render this formal ground of rejection moot.

It is respectfully submitted that the present application, as amended above, is in condition for allowance, an early notification thereof being earnestly solicited. If any issues remain outstanding, the Examiner is respectfully requested to contact the undersigned attorney so that prosecution of this application may be expedited.